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Docket No. F-8475

Ser. No. 10/518,281

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Currently Amended) A ball bearing, comprising:

an inner ring member having double raceway surfaces;

an outer ring member which is concentrically arranged with said inner ring member and has double raceway surfaces corresponding to each raceway surface of said inner ring member;

~~double row~~ balls which are arranged in two rows between the raceway surfaces of each row of said inner ring member and said outer ring member;
[[and]]

first and second cages [[for]] respectively holding said balls in said two rows ~~each row, wherein one cage among these cages~~ ;

said first cage having ~~comprises a pocket portion~~ portions for housing said balls, and an annular interconnecting portion integrally formed with [[this]] said ~~pocket portion, and wherein~~ portions, said annular interconnecting portion of said [[one]] first cage is arranged between a shoulder portion of said inner ring member and a shoulder portion of said outer ring member ~~via a clearance having a radial fine dimension~~ and has an annular baffle portion projecting radially inward from

Docket No. F-8475

Scr. No. 10/518,281

said annular interconnecting portion toward said shoulder portion of said inner ring to define a radially fine clearance therebetween; and

said second cage having pocket portions housing said balls and an annular interconnecting portion integrally formed with said pocket portions and without a baffle portion projecting radially therefrom.

2. (Currently Amended) A ball bearing, comprising:

an inner ring member having raceway surfaces with different diameters on a major diameter side and a minor diameter side;

an outer ring member which is concentrically ~~arranges~~ arranged with said inner ring member and has raceway surfaces with different diameters on the major diameter side and the minor diameter side corresponding to each raceway surface of said inner ring member;

~~double row~~ balls in two rows which are arranged between respective raceway surfaces of said inner ring member and said outer ring member; and

second and first cages on the major diameter side and the minor diameter side for holding said balls in each row ~~, wherein the cage on the minor diameter side among said cages comprises a pocket portion for housing said balls, and an annular portion integrally formed with this pocket portion, and wherein said annular portion of said cage on the minor diameter side is arranged between a~~

Docket No. F-8475

Scr. No. 10/518,281

~~shoulder portion of said inner ring member and a shoulder portion of said outer ring member via a clearance having a radial fine dimension .~~

said first cage having pocket portions for housing said balls, and an annular interconnecting portion integrally formed with said pocket portions, said annular interconnecting portion of said first cage is arranged between a shoulder portion of said inner ring member and a shoulder portion of said outer ring member and has an annular baffle portion projecting radially inward from said annular interconnecting portion toward said shoulder portion of said inner ring to define a radially fine clearance therebetween; and

said second cage having pocket portions housing said balls and an annular interconnecting portion integrally formed with said pocket portions and without a baffle portion projecting radially therefrom .

3. (Currently Amended) A ball bearing used in a part where a lubricant passes through an annular space of the bearing ~~between an inner ring member and an outer ring member~~, comprising:

an inner ring member having double raceway surfaces;

an outer ring member which is concentrically arranged with said inner ring member to define said annular space therebetween and has double raceway surfaces corresponding to each raceway surface of said inner ring member;

Docket No. F-8475

Ser. No. 10/518,281

~~double row~~ balls which are arranged in two rows between the raceway surfaces of each row of said inner ring member and said outer ring member;
[[and]]

first and second cages [[for]] respectively holding said balls in said two rows each row, wherein one cage among these cages :

said first cage having comprises a pocket portion portions for housing said balls, and an annular interconnecting portion integrally formed with [[this]] said pocket portion, and wherein portions, said annular interconnecting portion of said [[one]] first cage is arranged between a shoulder portion of said inner ring member and a shoulder portion of said outer ring member ~~via a clearance having a radial fine dimension and has an annular baffle portion projecting radially inward from said annular interconnecting portion toward said shoulder portion of said inner ring to define a radially fine clearance therebetween; and~~

said second cage having pocket portions housing said balls and an annular interconnecting portion integrally formed with said pocket portions and without a baffle portion projecting radially therefrom.

4. (Currently Amended) A ball bearing used in a part where a lubricant passes through an annular space of the bearing ~~between an inner ring member and an outer ring member~~, comprising:

Docket No. F-8475

Scr. No. 10/518,281

an inner ring member having raceway surfaces with different diameters on a major diameter side and a minor diameter side;

an outer ring member which is concentrically ~~arranges~~ arranged with said inner ring member to define said annular space therebetween and has raceway surfaces with different diameters on the major diameter side and the minor diameter side corresponding to each raceway surface of said inner ring member;

~~double row~~ balls in two rows which are arranged between respective raceway surfaces of said inner ring member and said outer ring member; and

second and first cages on the major diameter side and the minor diameter side for holding said balls in each row ~~wherein the cage on the minor diameter side among said cages comprises a pocket portion for housing said balls, and an annular portion integrally formed with this pocket portion, and wherein said annular portion of said cage on the minor diameter side is arranged between a shoulder portion of said inner ring member and a shoulder portion of said outer ring member via a clearance having a radial fine dimension~~ :

said first cage having pocket portions for housing said balls, and an annular interconnecting portion integrally formed with said pocket portions, said annular interconnecting portion of said first cage is arranged between a shoulder portion of said inner ring member and a shoulder portion of said outer ring member and has an annular baffle portion projecting radially inward from said annular

Docket No. F-8475

Ser. No. 10/518,281

interconnecting portion toward said shoulder portion of said inner ring to define a radially fine clearance therebetween; and

said second cage having pocket portions housing said balls and an annular interconnecting portion integrally formed with said pocket portions and without a baffle portion projecting radially therefrom .

5. (Original) A ball bearing according to claim 4, wherein an axial end face on a side of the raceway surface with major diameter of said outer ring member is axially closely positioned to the side of the raceway surface with minor diameter of said inner ring member compared with an axial end face of a side of the raceway surface with major diameter of said inner ring member.

6. (Original) A ball bearing according to claim 5, wherein a line of action of a bearing portion on the side of the raceway surface with major diameter is inclined towards a bearing portion on a side of the raceway surface with minor diameter.

7. (Cancelled)